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#4

RAW SEQUENCE LISTING

DATE: 11/22/2000

PATENT APPLICATION: US/09/706,128

TIME: 11:57:18

Input Set : A:\VPI98-04 CON.sqlist.txt

Output Set: N:\CRF3\11222000\I706128.raw

ENTERED

3 <110> APPLICANT: Xie, Xiaoling
 4 Gu, Yong
 5 Markland, William
 6 Su, Michael S.
 7 Caron, Paul R.
 8 Fox, Edward
 9 Wilson, Keith P.
 10 Vertex Pharmaceuticals, Inc.
 12 <120> TITLE OF INVENTION: CRYSTALLIZABLE JNK COMPLEXES
 14 <130> FILE REFERENCE: VPI/98-04 CON
 C--> 16 <140> CURRENT APPLICATION NUMBER: US/09/706,128
 C--> 17 <141> CURRENT FILING DATE: 2000-11-03
 19 <150> PRIOR APPLICATION NUMBER: PCT/US99/09824, 60/084,056
 W--> 20 <151> PRIOR FILING DATE: 1999-05-04, 1998-05-04
 22 <160> NUMBER OF SEQ ID NOS: 6
 24 <170> SOFTWARE: PatentIn Ver. 2.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 422
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 29 <213> ORGANISM: Homo sapiens
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 32 <223> OTHER INFORMATION: JNK3
 34 <400> SEQUENCE: 1
 35 Met Ser Leu His Phe Leu Tyr Tyr Cys Ser Glu Pro Thr Leu Asp Val
 36 1 5 10 15
 38 Lys Ile Ala Phe Cys Gln Gly Phe Asp Lys Gln Val Asp Val Ser Tyr
 39 20 25 30
 41 Ile Ala Lys His Tyr Asn Met Ser Lys Ser Lys Val Asp Asn Gln Phe
 42 35 40 45
 44 Tyr Ser Val Glu Val Gly Asp Ser Thr Phe Thr Val Leu Lys Arg Tyr
 45 50 55 60
 47 Gln Asn Leu Lys Pro Ile Gly Ser Gly Ala Gln Gly Ile Val Cys Ala
 48 65 70 75 80
 50 Ala Tyr Asp Ala Val Leu Asp Arg Asn Val Ala Ile Lys Lys Leu Ser
 51 85 90 95
 53 Arg Pro Phe Gln Asn Gln Thr His Ala Lys Arg Ala Tyr Arg Glu Leu
 54 100 105 110
 56 Val Leu Met Lys Cys Val Asn His Lys Asn Ile Ile Ser Leu Leu Asn
 57 115 120 125
 59 Val Phe Thr Pro Gln Lys Thr Leu Glu Glu Phe Gln Asp Val Tyr Leu
 60 130 135 140
 62 Val Met Glu Leu Met Asp Ala Asn Leu Cys Gln Val Ile Gln Met Glu
 63 145 150 155 160
 65 Leu Asp His Glu Arg Met Ser Tyr Leu Leu Tyr Gln Met Leu Cys Gly
 66 165 170 175
 68 Ile Lys His Leu His Ser Ala Gly Ile Ile His Arg Asp Leu Lys Pro
 69 180 185 190

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71 Ser Asn Ile Val Val Lys Ser Asp Cys Thr Leu Lys Ile Leu Asp Phe
72      195      200      205
74 Gly Leu Ala Arg Thr Ala Gly Thr Ser Phe Met Met Thr Pro Tyr Val
75      210      215      220
77 Val Thr Arg Tyr Tyr Arg Ala Pro Glu Val Ile Leu Gly Met Gly Tyr
78 225      230      235      240
80 Lys Glu Asn Val Asp Ile Trp Ser Val Gly Cys Ile Met Gly Glu Met
81      245      250      255
83 Val Arg His Lys Ile Leu Phe Pro Gly Arg Asp Tyr Ile Asp Gln Trp
84      260      265      270
86 Asn Lys Val Ile Glu Gln Leu Gly Thr Pro Cys Pro Glu Phe Met Lys
87      275      280      285
89 Lys Leu Gln Pro Thr Val Arg Asn Tyr Val Glu Asn Arg Pro Lys Tyr
90      290      295      300
92 Ala Gly Leu Thr Phe Pro Lys Leu Phe Pro Asp Ser Leu Phe Pro Ala
93 305      310      315      320
95 Asp Ser Glu His Asn Lys Leu Lys Ala Ser Gln Ala Arg Asp Leu Leu
96      325      330      335
98 Ser Lys Met Leu Val Ile Asp Pro Ala Lys Arg Ile Ser Val Asp Asp
99      340      345      350
101 Ala Leu Gln His Pro Tyr Ile Asn Val Trp Tyr Asp Pro Ala Glu Val
102      355      360      365
104 Glu Ala Pro Pro Pro Gln Ile Tyr Asp Lys Gln Leu Asp Glu Arg Glu
105      370      375      380
107 His Thr Ile Glu Glu Trp Lys Glu Leu Ile Tyr Lys Glu Val Met Asn
108 385      390      395      400
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114      420
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123 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
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130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
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139 <210> SEQ ID NO: 4
140 <211> LENGTH: 8
141 <212> TYPE: PRT

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 PATENT APPLICATION: US/09/706,128 TIME: 11:57:18

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 Output Set: N:\CRF3\11222000\I706128.raw

142 <213> ORGANISM: Artificial Sequence
 144 <220> FEATURE:
 145 <223> OTHER INFORMATION: Description of Artificial Sequence: glycine-rich
 146 phosphate anchor loop
 148 <220> FEATURE:
 149 <223> OTHER INFORMATION: Xaa throughout the sequence may be any amino acid
 151 <400> SEQUENCE: 4
 152 Gly Xaa Gly Xaa Xaa Gly Xaa Xaa
 153 1 5
 156 <210> SEQ ID NO: 5
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 158 <212> TYPE: PRT
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 162 <223> OTHER INFORMATION: Description of Artificial Sequence: glycine-rich
 163 peptide
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 166 Gly Ser Gly Ala Gln Gly Ile Val
 167 1 5
 170 <210> SEQ ID NO: 6
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 172 <212> TYPE: PRT
 173 <213> ORGANISM: Artificial Sequence
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 176 <223> OTHER INFORMATION: Description of Artificial Sequence: EGF receptor
 177 peptide
 179 <400> SEQUENCE: 6
 180 Lys Arg Glu Leu Val Glu Pro Leu Thr Pro Ser Gly Glu Ala Pro Asn
 181 1 5 10 15
 183 Gln Ala Leu Leu Arg
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VERIFICATION SUMMARY DATE: 11/22/2000
PATENT APPLICATION: US/09/706,128 TIME: 11:57:19

Input Set : A:\VPI98-04 CON.sqlist.txt
Output Set: N:\CRF3\11222000\I706128.raw

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L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:20 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:152 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:152 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:152 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4